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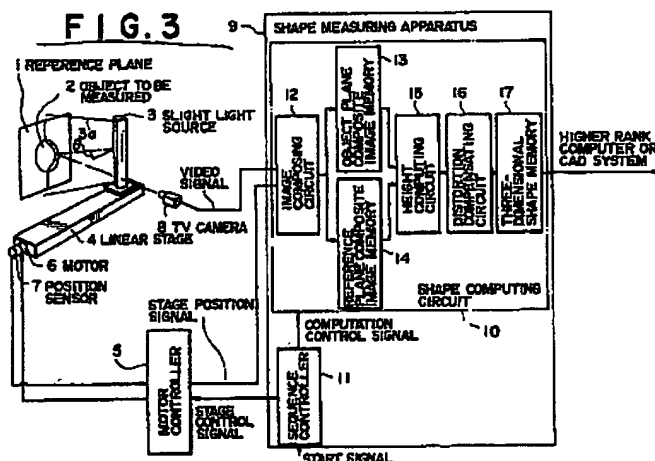
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(54) Apparatus for measuring three-dimensional curved surface shapes.

(57) A three-dimensional curved surface shape measuring apparatus of the slit light linear scanning type. In accordance with a composite image $u(x, y)$ produced by image composing means when a slit light is scanned over a surface of an object to be measured, a measured value or computed value $u_0(x, y)$ of a composite image with respect to a reference

plane, a light projecting angle θ to the reference plane and a reference plane-television camera distance a , a necessary computational processing is performed to determine a three-dimensional curved surface shape $f(x, y)$ of the surface of the object which is free of any distortions due to a perspective effect of the television camera.

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EUROPEAN SEARCH REPORT

Application Number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claims	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	WO-A-8607443 (THE BROKEN HILL PROPRIETARY COMPANY LIMITED) * page 6, line 31 - page 7, line 1; figure 3 *	1, 3, 6	601B11/24
Y	PATENT ABSTRACTS OF JAPAN vol. 10, no. 52 (P-432)(2109) 28 February 1982, & JP-A-60 196608 (TOMOHICO AKUTA) 05 October 1985, * the whole document *	1, 3, 6	
A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 57 (P-434)(2114) 07 March 1986, & JP-A-60 200141 (HITACHI SEISAKUSHO K.K.) 09 October 1985, * the whole document *	1, 6	
A	DE-A-1423606 (UNITED STATES STEEL CORP.) * page 3, line 20 - page 11; claims 1-17; figures 1-7 *	1, 6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G01B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11 DECEMBER 1990	Examiner BATTESON A.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons * : member of the same patent family, corresponding document			